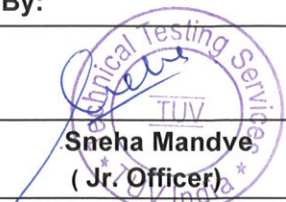




## TEST REPORT

<b>TUV India Pvt. Ltd,</b> Anjani Palladium, 203 & 204, Second Floor And Mezzanine Floor, 104b, Survey No.126/1, Baner Main Road, Baner, Pune 411045, Maharashtra, India. Tel No: +(91) 20-67113113 Website : <a href="http://www.tuv-nord.com">www.tuv-nord.com</a>	
<b>Report No: TUV/PTL/20-21/REL/0034</b>	<b>Date of issue: 22.04.2021</b>
<b>ULR NO: TC523721000000029F</b>	

- Job Card No.** : TUV/20-21/REL/0036
- Job Order No.** : 8118824753
- Sample ID** : TUV/PU210306-001
- Service Requested by** : **M/s. ENERTECH UPS PVT. LIMITED**  
S. No. 399/1-2, BHAREGAON, P.O. GHOTWADE,  
DIST-PUNE 412 115
- Report Issued to** : **M/s. ENERTECH UPS PVT. LIMITED**  
S. No. 399/1-2, BHAREGAON, P.O. GHOTWADE,  
DIST-PUNE 412 115

<b>Issued By:</b>

<b>Sneha Mandve</b> ( Jr. Officer)
<b>Date: 22.04.2021</b>




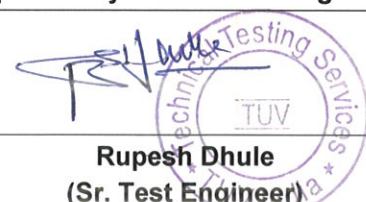
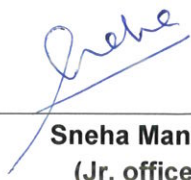
TC-5237



ULR No.: TC523721000000029F

**TUV India Private Limited**  
Anjani Palladium, 203 & 204,  
Second Floor And Mezzanine  
Floor, 104B, Survey No.126/1,  
Baner Main Road, Baner,  
Pune 411045,  
Maharashtra, India  
CIN U74140MH1989PTC052930  
Tel. : 020 6647 7000  
Toll Free : 1800-209-0902  
Email : pune@tuv-nord.com  
Website : www.tuv-nord.com/in

**TEST REPORT**

<b>Test Report No.:</b> TUV/PTL/20-21/REL/0034		<b>Page 1 of 6</b>
		<b>Issue date</b> 22/04/2021
<b>Test item</b>	: Solar PCU (Sunmagic)	
<b>Model Number</b>	: -	
<b>Sample ID</b>	: TUV/PU210306-001	<b>Serial No.:</b> 202102672
<b>Condition of sample on receipt</b>	: Good	<b>Date of receipt:</b> 06/03/2021
<b>Testing laboratory and its address</b>	<b>TUV India Private Limited</b> ANJANI PALLADIUM, 203 & 204, Second Floor and Mezzanine Floor, 104B, Survey No. 126/1, Baner Main Road, Baner, Pune - 411 045, Maharashtra.	
<b>Test specification</b>	IEC 60068-2-1: Tests- Test Ae & Ad: Cold (Operating and non-operating condition) IEC 60068-2-2: Tests- Test Be & Bd: Dry Heat (Operating and non-operating condition) IEC 60068-2-14: Tests- Test Na: Change of temperature IEC 60068-2-30: Tests-Test Db: Damp heat, cyclic (12+12h cycle)	
<b>Test Result</b>	: <i>The test item passed / failed the test specification(s).</i>	
<b>Other Aspects</b>	: <i>This test report relates to the test sample submitted</i>	
<b>Declaration of Conformity</b>	: Declaration of conformity of results is based on as per standard limits Or criteria.	
<b>Testing Start Date:</b> 11/03/2021		<b>Testing End Date:</b> 16/03/2021
<b>Tested by:</b>	<b>Approved by / Authorized Signatory:</b>	<b>Issued by:</b>
		
<b>Pravin Lute</b> (Test Engineer)	<b>Rupesh Dhule</b> (Sr. Test Engineer)	<b>Sneha Mandve</b> (Jr. officer)
<b>Date:</b> 22/04/2021	<b>Date:</b> 22/04/2021	<b>Date:</b> 22/04/2021



TC-5237

ULR No.: TC523721000000029F

Report No.:- TUV/PTL/20-21/REL/0034



Dated: 22/04/2021

GROUP : Environmental Test Facility  
DISCIPLINE : Electronics

Test item description	:	Solar PCU (Sunmagic)
Trade Mark	:	
Ratings	:	5 kW / 5 kVA, Battery DC: 48 Vd.c., AC Input: 170 – 270 Va.c. , PV range: 65 – 160 Vd.c. , Output: 230 Va.c.
Name of Manufacture	:	M/s. ENERTech UPS PVT. LIMITED
Address of Manufacturer	:	S. No. 399/1-2, BHAREGAON, P.Ö. GHOTWADE, DIST-PUNE 412 115
Photographs		See Attachment 1
Testing procedure and testing location:		
<input checked="" type="checkbox"/>	Testing Laboratory	TUV India Private Limited
Testing location/ address	:	ANJANI PALLADIUM, 203 & 204, Second Floor and Mezzanine Floor, 104B, Survey No. 126/1, Baner Main Road, Baner, Pune - 411045, Maharashtra.
Tested by (name + signature)	:	Mr. Pravin Lute (Test Engineer) 
Approved by (name + signature)	:	Mr. Rupesh Dhule (Sr. Test Engineer)  



TC-5237



ULR No.: TC523721000000029F

Report No.:- TUV/PTL/20-21/REL/0034

Dated: 22/04/2021

**Environmental Condition:**

Environmental/ Ambient Condition		
1	Temperature	25.2°C
2	Humidity	46%

**Equipment Used:**

Test equipment list				
Item	Type	Make / Model	Equipment No. / SI. No.	Calibration date Due
1	Climatic Test Chamber	Weiss Technik / C-1500-40	TUV/PTL/SAFTY/301	24/7/2021
2	Anemometer	Fluke 925	TUV/PTL/SAFTY/347	29/7/2021





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ULR No.: TC523721000000029F

Report No.:- TUV/PTL/20-21/REL/0034

Dated: 22/04/2021

**Test Requirement:**

Sr. No	Test Type	Test Method	Standard	Test Specification	Test Duration
1	Cold Test	Cold Test	IEC 60068-2-1:2007 (Test Ab)	Ambient To -10°C within 35min. Temperature change rate: 1.0°C/min. -10°C Stable for 3 hrs -10°C to Ambient 35 min Stability period at ambient 1 Hr No of cycle: 1 EUT Condition: OFF	5 hrs 10 min
2	Dry Heat test	Dry Heat	IEC 60068-2-2:2007 (Test Bd)	Ambient To +55°C within 30min Temperature change rate:-1.0°C/min +55°C Stable for 17hrs +55° to Ambient within 30 min Stability period at ambient 1 Hr No. of cycle: 1 EUT Condition: OFF	19hrs
3	Change of Temperature Test	Thermal Cyclic Test	IEC 60068-2-14:2009 (Test Na)	Ambient stable for 3 min Ambient to -10°C within 18 min -10°C Stable for 3 hrs -10 to ambient immediately Ambient to +55°C within 18 min +55°C Stable for 3 hrs +55°C to Ambient immediately Ambient stable for 3 min Stability period at ambient 1 Hr EUT Condition: OFF No. of Cycle:3	21 hrs
4	Damp Heat Test	Damp Heat	IEC 60068-2-30:2005 (Test Db)	Lower Temperature: 25 ±3°C Humidity not less than 96%RH Higher Temperature 55°C±3°C Humidity not less than 93%RH Temperature change rate:-0.18°C/min Stability period at ambient 1 Hr Exposure period: 72 Hr EUT Condition: OFF NO of Cycle:-3	73 hrs



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ULR No.: TC52372100000029F

Report No.: TUV/PTL/20-21/REL/0034

Dated: 22/04/2021

**Functional test:**

Before test	After Test
EUT output is ON after pressing ON/OFF button	EUT output is ON after pressing ON/OFF button
Display ON after powered ON	Display ON after powered ON
Measure voltage at output is 230 V	Measure voltage at output is 230 V



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**Attachment 1:  
Photographs: Equipment under Test**



Fig.1 Front view

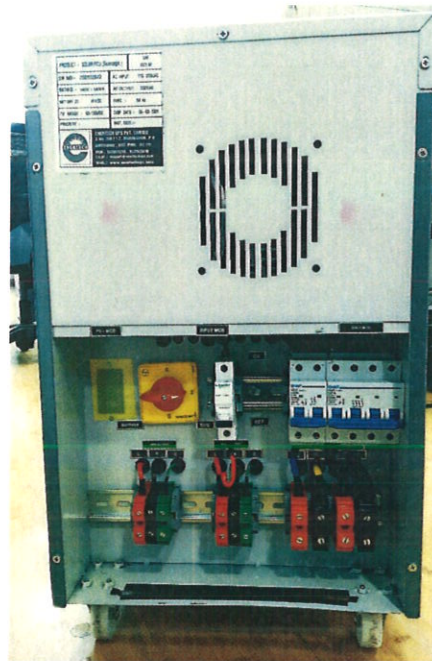


Fig.2 : Rear View of EUT


PRODUCT :- SOLAR PCU (Sunmagic)		QAF 1501-02
SR.NO:- 202102672	AC INPUT - 170- 270VAC	
RATING :- 5 KW / 5KVA	AC OUTPUT :- 230VAC	
BATTERY DC:- 48 VDC	FREQ. :- 50 Hz	
PV RANGE :- 65- 160VDC	DISP. DATE :- 26 - 02- 2021	
PRIORITY :-	INST. DATE :-	
 <b>INVERTECH UPS PVT LIMITED</b> 5th Floor, 100, BRABH ROAD, P.O. ANDHRA, DIST. GUNTUR, 522 215 TEL: 0863 2625111, 2625115 Email: support@invertech.com www.invertechups.com		

Fig.3 : Marking Plate Photograph

\*\*\*End of Report\*\*\*